

# idChamp® 1128 Specifications

PART NUMBER: 1128-US-BT-UHF-IMG

| <b>ELECTRICAL</b>                       |  |
|---|--|
| <b>Communication Protocols</b>          | TSL ABC (Parameterised ASCII command set)<br>Impinj binary)  |
| <b>Data Interface</b>                   | Bluetooth, USB   |
| <b>Power Source</b>                     | USB / rechargeable battery   |
| <b>Battery Type</b>                     | Removable 4.2 volt Lithium Polymer 2200mAh, 8.4 watt hrs   |
| <b>PHYSICAL</b>                         |  |
| <b>Dimensions (with trigger handle)</b> | 16.0 cm x 7.7 cm x 16.9 cm   |
| <b>Dimensions (with slimline grip)</b>  | 16.0 cm x 7.7 cm x 9.7 cm  |
| <b>Weight</b>                           | 380 g / 13.4 oz  |
| <b>Casing</b>                           | Black Lexan EXL9330 PC<br>Yellow Lexan 943A PC   |
| <b>User Input</b>                       | Trigger button   |
| <b>User Feedback</b>                    | Speaker, vibration motor, LED  |
| <b>ENVIRONMENT</b>                      |  |
| <b>Operating Temperature</b>            | -4°F to 140°F ( -20°C to 60°C)   |
| <b>Charging Temperature</b>             | 41°F to 104°F / 5°C to 40°C  |
| <b>Storage Temperature</b>              | -40°F to 158°F /-40°C to 70°C  |
| <b>Humidity</b>                         | 5% to 95% non-condensing   |
| <b>Drop Specification</b>               | Multiple drops to concrete: 4 ft./1.2 m ambient, 3ft / 0.9m across the operating temperature range |
| <b>Tumble</b>                           | 500 0.5 meter tumbles at room temperature (1,000   |

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|                                | cycles)  |
| <b>Environmental Sealing</b>   | IP54   |
| <b>Electrostatic Discharge</b> | ± 15 kVdc air discharge; ± 8 kVdc contact discharge                                    |
| <b>MIL-STD 810F</b>            | Meets and exceeds applicable MIL-STD 810F for drop, tumble and sealing                 |
| <b>RFID PERFORMANCE</b>        |  |
| <b>Standards Supported</b>     | EPC Class 1 Gen 2  |
| <b>Nominal Read Range</b>      | up to 13 ft. (up to 4 m.)  |
| <b>Nominal Write Range</b>     | up to 4 ft. (up to 1.22 m.)  |
| <b>Field</b>                   | 150-degree forward facing (approx.) measured from front of device                      |
| <b>Antenna</b>                 | Detachable, Circularly Polarized with optional 2D scanner                              |
| <b>Frequency Range</b>         | EU: 865-868MHz; US: 902-928MHz   |
| <b>Output Power</b>            | 10mW to 800mW  |
| <b>Antenna Options</b>         | High Performance CP<br>High Performance CP with 2D imager<br>Custom antennas available |
| <b>BARCODE SCANNER</b>         |  |
| <b>Imager</b>                  | Motorola SE4500 2D imager  |
| <b>Sensor Resolution</b>       | 752 x 480 pixels   |
| <b>Field of View</b>           | Horizontal: 40°, Vertical: 25°   |
| <b>Focal Distance</b>          | SR: 8 in. DL: 5.3 in. HD: 2.9 in.  |
| <b>Aiming LED (VLD)</b>        | 655 ±10 nm Laser   |
| <b>Illumination Element</b>    | 625 ±5 nm LEDs (2x)  |
| <b>Min. Print Contrast</b>     | Minimum 25%  |
| <b>Symbologies Supported</b>   | <b>1D:</b> All major codes<br><b>2D:</b> PDF417, MicroPDF417, Composite, RSS,          |

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|-------------------------------------|--|
|                                     | TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal Dutch Postal (KIX) |
| <b>BLUETOOTH</b>                    |  |
| <b>Bluetooth</b>                    | Bluetooth Version 2.1 SPP and Apple iAP<br>Bluetooth HID (coming soon)   |
| <b>Bluetooth Class</b>              | Class 2  |
| <b>Bluetooth Range</b>              | 10 m   |
| <b>Bluetooth Pairing</b>            | PIN, Secure Simple Pairing, NFC OOB Pairing (TBA)  |
| <b>COMPATIBILITY</b>                |  |
| <b>USB</b>                          | Any USB host with FTDI VCP driver support (Windows, Linux, Mac, Android)   |
| <b>Bluetooth</b>                    | Window, Mac, iOS, Android, Linux   |
| <b>WARRANTY</b>                     |  |
| <b>Return Policy</b>                | 30 days  |
| <b>Setup Support</b>                | 30 days  |
| <b>Manufacturer Defect Warranty</b> | 1 year   |